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IDENTIFIERS GATB; *General Aptitude Test Battery; Pinsetter

Mechanic (Automatic)

ABSTRACT

The United States Training and Employment Service General Aptitude Test Battery (GATB), first published in 1947, has been included in a continuing program of research to validate the tests against success in many different occupations. The GATB consists of 12 tests which measure nine aptitudes: General Learning Ability; Verbal Aptitude; Numerical Aptitude; Spatial Aptitude; Form Perception; Clerical Perception; Motor Coordination; Finger Dexterity; and Manual Dexterity. The aptitude scores are standard scores with 100 as the average for the general working population, and a standard deviation of 20. Occupational norms are established in terms of minimum qualifying scores for each of the significant aptitude measures which, when combined, predict job performance. Cutting scores are set only for those aptitudes which aid in predicting the performance of the job duties of the experimental sample. The GATB norms described are appropriate only for jobs with content similar to that shown in the job description presented in this report. A description of the validation sample is included.

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STANDARDIMATION OF THE CEREBAL AUTITUDE TEST BARTURY

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STANDARDIZATION OF THE CUMERAL APTITUDE TEST RATTERY

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Vin and a Michanic, Andempte (Lagrand) 1872. 288 8 36

Summary

The Concert Antitude Test Eathery, E-1907, we administed to a final comple of 82 men employed at various leading altege. A multiple-brodle criterion based on classroom ratings and field ratings was used for validation purposes. On the brois of mean access, abundant deviations, correlations with the criteria, job analysis data and their combined asleative officiency. Aptitudes Hellumerical Aptitude, Delivarial Aptitude and P-Pinger Desterity were related for inclusion in the final cent norms.

GATB Morms Cor Presenter Mes Wapne, Mute winter Congranted Section 300 25%

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Δρείtude	Teeta	Minimum Acceptable Aptitude Score	Aptitude	Touts	Minimum Acceptable Aptitude Score			
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\mathbb{S}	CB-1-H CB-1-f.	ge.	3	Leint. U	115			
r.	**************************************	3!,	r · · · · · · · ·	Jank 11.	90			
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Diffectiveness of Horses

The data in Table IV indicate that only 60 percent of the non-test-sectorized workers used for this study were west workers; if the workers had been test-selected with the above norms, it is not would have been good workers.

"I percent of the non-test male, it is been used for this study were poortera; if the workers had been to be already with the above neums, only any percent would have been poor workers.



TECHNICAL PEROPE

1. Impore

This study was conducted to designation the fact condination of applitudes and minimum accuses to be used as accuse on the Coneral Actifule Test. Thattery for the occupation of $\psi_{B_{ij}}(x,y,y) = h_{ij}(x,y) = A_{ij}(x,y) = e^{-i x_{ij}} e^{-i x_{ij}}$

II. Bangelo

Early in 1969, the Conferent total Cotton of the New York States Employeent Service received an impries from the Discreter of Technics of the Post-Her temporary reporting the test and ottom of Fine (time Chine Machine Machine Livings). A plan was deviced whomby to inverse the ending the course plane at the manufacturing ofte of the pinachting machine (Otic Elevator Company Utant, Yonkers, Her York) would be alministered the Consent Sptitude Took Battery at the cottail of the course. Appreciantly ten to tilteen men attracted each almost which upp of two weeks duration. There men were employees of vacious independent bending allegs that had placed orders with the Boul-Mac Company for new pinachting equipment. Per unto the Yonkers location was the only training facility the comple was composed of men from various party of the country.

The GATE, B-1092A, was administered to 100 men envolved in the above training course. Of the 100 men tested, 17 were excluded from the final comple because they could not be properly evaluated with repaid to on-the-job performance. Therefore, the final comple consists of 83 males employed as Papacitus Mechanics, Nationalic (any toda) 209.837/

TABLE! I

Frame (B). Standard Deviations (a), Ranges, and Tearron Products-Penguty Correlations with the Criteria (r_1 = classroom ratings) (r_2 = field excines) (or Age and Education

N = 83	11	13 · · ·	Range	r _{1.}	r_{j}
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Flucetton (years)	11,4	1.7	64.10	. ខ្លួកកំត	.131

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III. dela Peneription

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functions plus on dide of speed reducer and odds libricant id needed to being off force up to plug of nine. If pluces plus, and tightens with uponch. Talks turntable from eximite and element off recent openove accumulated dirt. Cleans charter and camp with eacth and liquidstype household determine, removing all gummy deposite which could camp a pin to stick in a chute.

Province report of ruchine mattenation brow mechanic on previous chill, or from a fore managers, or disposes; need for repair, parts replacement or adjustment during routine check and inspection. Character and listens to mediate aveling to detect any obvious reflequetion. Priors to manufacture to maintenance manual by dispuse probable gauge of mattanetion and remediat action to be taken. Determines the their treat to be properly of a trial or modulated delect by time checking all mechanical commonents for proper adjustments and alcoromers. Then needed adjustments and alcoromers, there are ded adjustments and alcoromers, then needed adjustments and alcoromers.

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Propagationance log for each muchine uting cumulative record of contentive withten men an eignide for more appointed presentive naintenance. Eveps inventory of apare parts on hand and recorders routecoments.



V. Chillenia

A. Description of epitaria;

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- the faire. I diagnost the months of the comparate ion of the groom a feefaire. I diagnost a made to the comparate field contine expents on the northern in the number. In their octainst team, these rations were unixten reports. In orien to anomally there a lines, they were broken does into those light extensions excellent, antisfactory and unsechelactory jet performance. He mailed examined agrees were computed for each of these extension.
- B. Analysis of Criterian Data: The objained correlation coefficient of Jobi for the relationship between the element constant and field relings adapted the content the content of pertonance. Single each of these criteria constants of pertonance. Single each of these criteria constants and the CATE, a multiple bundle criterian was established as the final criterion by cotting a critical score is each of these criteria. (See paracraph VII for information on disherenique of the multiple bundle criterion.)

C. Onalitative and Quantitative Analyses

A. On ditative Analysis

in the terrie of the job analysis data, the fedlowine additudes done eated "important" for inages; in this occupation:

intelligence (6) - required to aljust, required minutals automotic placetting machinery and to house and reprod different in steelthest and opened in accordance with whilm diagram and manufactured a manual.

Sported Antiquete (*) - required to large at placetting machinery and to object to the Specialism viewally in ender to identify maltaneticaling,

John Perception (P) - required to examine exceptioned too cracks and brighe and called too exercise to traying, and to understant of estated diagrams.

timple logicative (P) - required to une special tooks and electrical test equipment to adjust, repair and replace material electrical systems.

thought thest arity (11) - combred to use hand tools, such as seven delvers, plicing homisers, and whereas,

B. Quantitaries Analysisa

TABLE 11

dean (H), and ad Deviation: (6), and behavior recursion. However Correlations with the Classicans ratings Criticism (r₁) and light backings Criticism (r₂) for the

Apriloda.	M.	£ 2 ***	11	P?
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Sespatial Apticude	1000	18.7	2.486 (:	.057
P-Porm Persention	Care of	11	جينون ۾ ۾	- (1) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
Q-Clerical Perception	97.0	10.0	. 1461	m (1)1,4
k-Morey Coordination	73.9		0.5	
Ps Pingor Des to a tro	200	37.0	22.77%	9994
men or topicarity	l pouh	12,6	1 (42)	

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C. Selection of Test Normal

Summary of Omalitative and Quantitative Data

Summary of Qualitative	.16161 	Gula 	inti ~~ ·	tat.	1V0	: 1) ₁₄	(,a 		
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biguidiant Correlation bith Criterian Apticulus to be Considered tor Trial Horma	. (1.								

Third merons considering of various combinations of Aprilades G, V, H, E, P, O, E, I with appropriate cutting network were evoluted as finit the arithmidal training to the Phi Confederate technique. To comparison of the confederation that the arithmidal training to the comparison of the confederation that the confederation are considered to the confederation and the confederation of the confederation and the confederation and the confederation of the confederation and the confede

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The data in the above table indicate a significant relationship between the test perme and the exitetion for the comple

VIII. Conclusiona

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12. Intermited to set to ment to all April of Detterm

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